

January 1 - December 31, 2023 Antibiograms - Outpatients
Percent Susceptible (%S¹)

Gram Negative Isolates		B-lactams												Aminoglycosides			FQ			Other			Number of Urinary Isolates
Organism	Number of Isolates	Ampicillin	Ampicillin/Subbactam	Piperacillin/taobactam	Cefazolin	Cefepime	Cefotaxime	Cefoxitin	Ceftazone	Ceftazidime	Ertapenem	Meropenem	Aztreonam	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Tetracycline	Fluoroquinolone	Trimethoprim-sulfamethoxazole	Nitrofurantoin ²	
<i>Acinetobacter baumannii</i>	+	R			R						R		R										
<i>Citrobacter freundii</i>	80	R	R	94	R	96	88	R	R	86	98	100	86	99	96	95	89	91	89	100	85	96	71
<i>Citrobacter koseri</i>	30	R	97	100	97	100	100	97	100	100	100	100	97	100	100	100	100	100	100	100	100		+
<i>Enterobacter cloacae</i>	114	R	R	84	R	90	77	R	64	78	85	100	77	99	98	98	95	98	91	96	93	24	79
<i>Escherichia coli</i>	3028	57	64	99	83	99	99	97	99	99	100	100	99	99	93	95	82	85	80	99	76	98	2942
<i>Escherichia coli, ESBL</i>	232	0	25	97	0	0	0	90	0	0	99	100	0	99	54	53	35	52	31	100	38	93	222
<i>Klebsiella aerogenes</i>	67	R	R	90	R	97	84	R	70	78	99	100	91	100	100	100	99	100	94	99	99	13	62
<i>Klebsiella oxytoca</i>	102	R	77	99	25	98	98	96	96	99	98	100	96	100	97	96	96	98	94	100	92	92	83
<i>Klebsiella pneumoniae</i>	606	R	86	98	93	100	100	95	100	99	99	100	99	100	99	99	95	97	85	98	93	43	574
<i>Klebsiella pneumoniae, ESBL</i>	32	R	6	88	0	0	0	94	0	0	97	97	0	100	50	38	31	69	38	97	16	20	30
<i>Morganella morganii</i>	80	R	7	98	R	97	93	95	90	90	100	100	87	100	89	98	84	85	48	R	79	R	70
<i>Proteus mirabilis</i>	338	88	95	100	83	100	99	97	99	99	100	100	99	99	96	96	83	84	R	R	83	R	291
<i>Providencia spp.</i>	+																				R	R	
<i>Pseudomonas aeruginosa</i>	247	R	R	95		90	R		R	96	R	91	87			95	87	85	R	R	R	R	
<i>Salmonella spp.</i>	+																						
<i>Serratia marcescens</i>	46	R	R	81	R	92	81	R	81	73	96	96	85	96	96	92	88	92	23	92	100	R	+
<i>Shigella spp.</i>	+																						
<i>Stenotrophomonas maltophilia</i>	+	R	R	R				R		R	R	R	R	R	R	R							

Haemophilus influenzae % Beta Lactamase Positive = 40% (N = 25)

Gram Positive Isolates		B-lactams							Aminoglycosides			FQ			Macrolide		Other							Number of Urinary Isolates			
Organism	Number of Isolates	Ampicillin	Amox/K Clav	Penicillin ³	Dicloxacillin	Cefazolin	Cefepime	Cefotaxime ⁴	Ceftriaxone	Ceftazone ⁴	Gentamicin	Gentamicin Synergy	Streptomycin Synergy	Ciprofloxacin	Levofloxacin	Azithromycin	Erythromycin	Tetracycline	Fluoroquinolone	Clindamycin	Daptomycin	Linezolid	Rifampin		Trimethoprim-sulfamethoxazole	Vancomycin	Nitrofurantoin ²
<i>Enterococcus spp.</i>	100	98		98		R	R	R	R			87	88	81	92		12	28		R	100	92	36	R	99	98	84
<i>Enterococcus faecalis</i>	362	100		100		R	R	R	R			84	90	84	91		16	22	100	R	99	100	46	R	100	99	294
<i>Enterococcus faecalis</i> - Vancomycin Resistant (VRE)	+					R	R	R	R											R				R	R		
<i>Enterococcus faecium</i>	+					R	R	R	R											R				R	R		
<i>Enterococcus faecium</i> - Vancomycin Resistant (VRE)	+					R	R	R	R											R				R	R		
<i>Staphylococcus aureus</i> - Methicillin Sensitive (MSSA)	341	0		18	100	99			100	99	98		86	89		59	90	100	80	99	99	99	99	99	100	98	50
<i>Staphylococcus aureus</i> - Methicillin Resistant (MRSA)	276	0		0	0	0			100	0	99		37	42		19	89	100	76	99	100	98	99	100	94	35	
<i>Staphylococcus epidermidis</i>	200	0		10	38	38			38	89			68	69		30	86	100	57	100	99	99	58	100	100	108	
<i>Staphylococcus hominis</i>	43	0		25	53	53			53	100			84	84		25	56		54	100	100	100	75	100		+	
<i>Streptococcus agalactiae</i>	254			99										99			27	14		57	100	100					
<i>Streptococcus pneumoniae</i> ⁵	48		94	69			92	92		94				98		46	46	79		84				67	100		
<i>Streptococcus anginosus</i>	131	100		100		98	100		100					100				41							100		

¹ The %S for each organism/antimicrobial agent combination was calculated by including only the first isolate of that organism recovered from a given patient during the time frame analyzed.

² For use in Urinary Tract Infections Only. Number of urinary isolates.

³ Penicillin, Cefotaxime, Ceftazone and Meropenem - Breakpoints utilized are for CNS infections only and are lower than non-CNS infection breakpoints. Resistance may be higher than expected due to this.

Symbols:

- , drug not tested or drug not indicated.

+, indicates < 30 isolates for the year and data not listed.

R = intrinsic resistance

FQ = Fluoroquinolones

ESBL = Extended spectrum beta-lactamase

MSSA = Methicillin Susceptible *Staphylococcus aureus*

MRSA = Methicillin Resistant *Staphylococcus aureus*

Reference: Clinical and Laboratory Standards Institute - M39 Analysis and Presentation of Cumulative Antimicrobial Susceptibility Test Data, 5th Edition.